

File No.

T. 32 N. R. 5 W.

DUPLICATE

County GLACIER

Well No 77-56

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

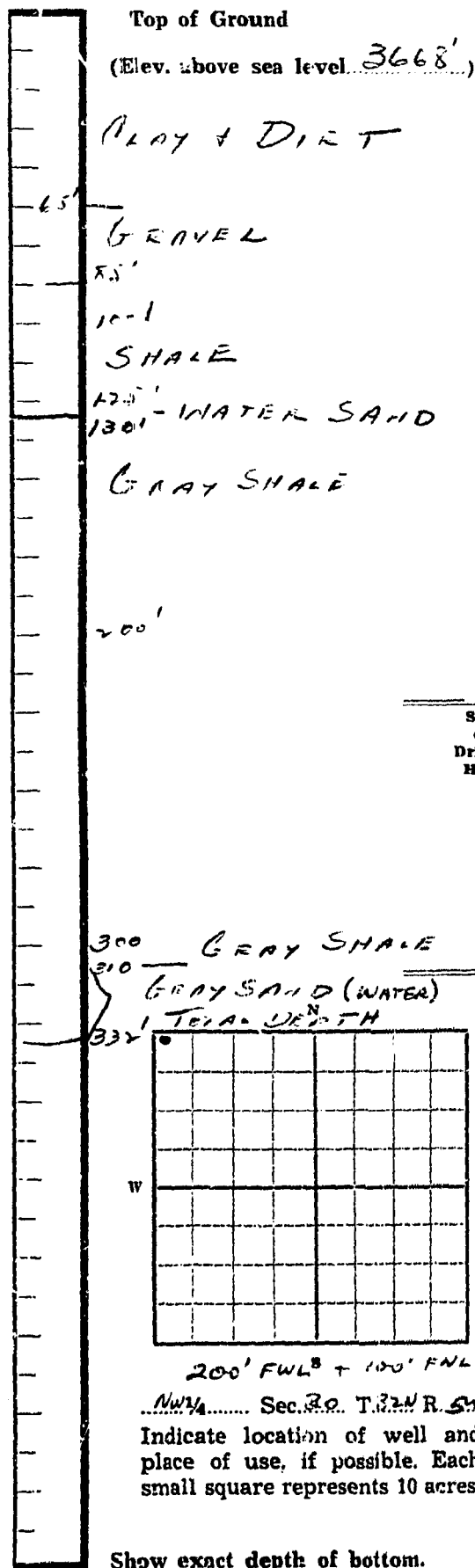
Owner Phillips Petroleum Corp. Address Cut Bank, MontanaDriller Aikins Drilling Co. Address Shelby, Montana

Date of Notice of Appropriation of Groundwater

Date well started 6-8-62 Date Completed 6-16-62Type of well Drilled Equipment Used Churn
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☒ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drill-Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10"	3 5/8-24#	0	312			

Static Water Level for non-flowing Well 257' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 286 feet at 73 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Pumping Length of Test 24 Hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

Cemented 8 5/8" casing to surfaceDriller's License Number 99Driller's Signature Harold Aikins

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

132667

FILED

At 3:20 o'clock P.M.

June 25, 1962

W. L. Harrison

County Clerk and Ex-officio Recorder of

GLACIER COUNTY, MONTANA

By Rita Hegg Deputy

GW2

File No.

T. 32N R. 5W

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Phillips Petroleum Corp Address Cut Bank, MontanaDriller Alkins Drilling Co. Address Shelby, MontanaDate of Notice of Appropriation of Groundwater APRIL 9, 1962Date well started 5-11-62 Date Completed 5-28-62

Type of well Drilled Equipment Used Churn
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☒ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10'	8 5/8"-24#	0	220			

Static Water Level for non-flowing Well 222' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 227 feet at 67 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Pump Test Length of Test 24 Hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

Casing cemented to surfaceDriller's License Number 97Driller's Signature Harold Alkins

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

941

132669

FILED

at 3:30 o'clock P.M.
June 25, 1962
M. L. Darnum
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
Dita Neff Deputy

GW1

File No.

T. 32N R. 5W

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

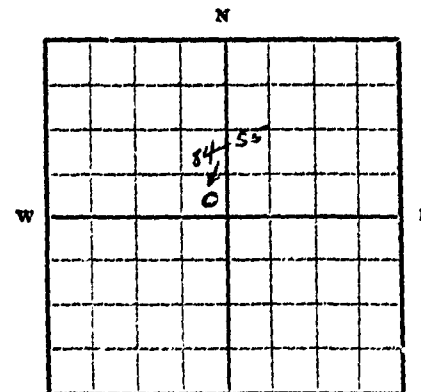
RECEIVED
JUN 10 1962

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. I, Phillips Petroleum Company, of Box 938 Cut Bank
(Name of Appropriator) (Address) (Town)
County of Glacier, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Secondary recovery of oil from the Cut Bank Sandstone in the S.W. Cut Bank Sand Unit in Glacier & Pondera Counties, Mont.
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 150 GPM total
4. The annual period (inclusive dates) of intended use year round
5. The probable or intended date of first beneficial use June 1, 1962
6. The probable or intended date of commencement and completion of the well* or wells* May 1962
7. The location, type, size and depth of well or wells contemplated Well No 84-85, 2378' f/NL, 2250' P/NL, Sec. 30-32N-5W, Glacier Co., Montana. Well to be drilled with 13-5/8" surface pipe to 400' and 11" hole to TD. 8-5/8" OD 2 1/2" casing will be set to Madison limestone.
8. The probable or estimated depth of the water table or artesian aquifer Madison is 3200 to 3300'.
9. Name, address and license number of the driller engaged Warren Atkins, 151 10th Ave. North, Shelby, Montana. License No. C-2860

10. Give such other similar information as may be useful in carrying out the policy of this act.....



SE 1/4 Sec. 30 T. 32N R. 5W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Phillips Petroleum Company
by Earl Stum Date April 9, 1962 Dist. Supt.

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

131911

FILED

at 2:45 o'clock P.M.

1912

M. L. Neumann
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA

By *William H. Neumann* Deputy

GW1

File No.

DUPLICATE

T. 32 N R. 5 W

County. Glacier

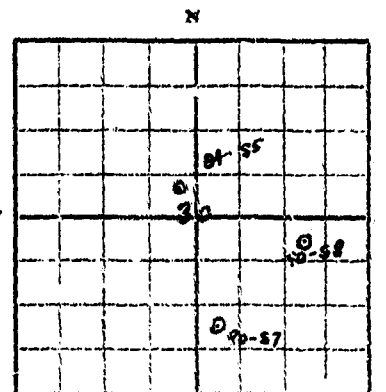
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Notice of Appropriation of Groundwater
(Under Chapter 237, Montana Session Laws, 1961)

1. I, Phillips Petroleum Company, of Box 938 Cut Bank
(Name of Appropriator) (Address) (Town)
County of Glacier, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is Secondary recovery of oil from the
Cut Bank Sandstone in the S.W. Cut Bank Sand Unit in Glacier & Pondera Counties, Mont.
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed 150 GPM total
4. The annual period (inclusive dates) of intended use year round
5. The probable or intended date of first beneficial use June 1, 1962
6. The probable or intended date of commencement and completion of the well* or wells* Commence April 15, 1962; complete by May 10, 1962
7. The location, type, size and depth of well or wells contemplated 90-87 990' f/SL, 2310' f/EL;
90-88 - 2310' f/SL, 970' f/EL; 84-85 - 2378' f/WL, 2250' f/EL, Sec. 30-32N-5W, Glacier
County. Wells to be drilled with 11" hole and tested through 8-5/8" casing in
Eagle Sandstone, estimated 300-350'. Eagle Sandstone
8. The probable or estimated depth of the water table or artesian aquifer 300-350'
9. Name, address and license number of the driller engaged George Jensen, Cut Bank, Montana License No. 30
10. Give such other similar information as may be useful in carrying out the policy of this act.

Plan to test Eagle Sandstone for suitability
of water supply at the three locations shown.
If sufficient water is not found surface casing
will be cemented and the wells will be deepened
by another driller for use in oil production
operations.



1/4 Sec. 30 T32N R5W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Phillips Petroleum Company
By: Carl Sturm Dist. Supt.
Date Mar 27, 1962

* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state. otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

131951

FILED

at 3:10 o'clock P.
3-27-62
M. J. Mansueti
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By *Anna L. L. L.* Deputy

File No. _____

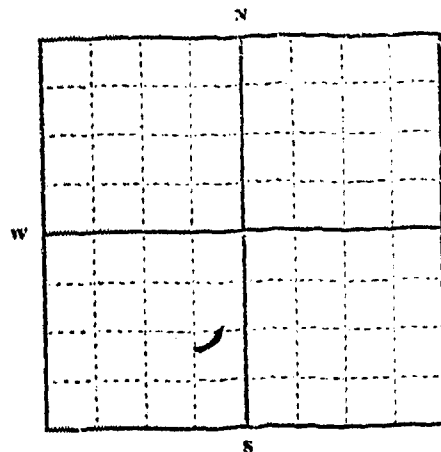
DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

County Blaine
JAN 3 1964
ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)



SE 1/4 SW 1/4 Sec 33, T.32, R.5W

Indicate point of appropriation
and place of use, if possible.Date of Appropriation of Groundwater 1949Owner Tan Bank Ranch, Inc. Address Cut Bank Mont.

Contractor (if any) _____

Address of Contractor _____

Date Started 1949 Date Completed 1949Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable. gravity1500 gal a dayQuantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittentestimate approximate lengths of periods of use. continuousSignature of Owner John A. Smith, Sec. Treas.Date Dec 31 - 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the
works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quadruplicate for the Appropriator.

138993

FILED

March 14 o'clock *P.M.*
1902
M. L. Quinn
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By *M. L. Quinn* Deputy

File No.

T. 32N R. 5W

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

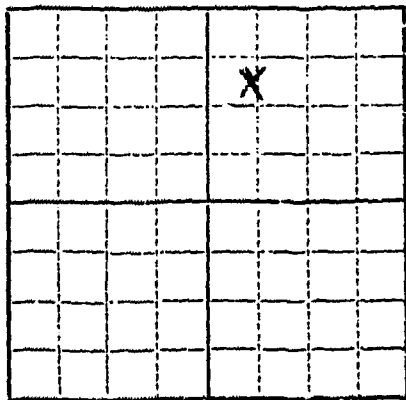
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
DEC 19 1963

STATE ENGINEER

1. Florence M. Hoffland of P. O. Box 308, Cut Bank,
(Name of Appropriator) (Address) (Town)
County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 34 T. 32N R. 5W.

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1947. Used ever since.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric jet pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1947.
8. The depth of water table 26 feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 107 feet deep, 6 inch galvanized casing.
10. The estimated amount of groundwater withdrawn each year 750,000 gallons.
11. The log of formations encountered in the drilling of each well if available Not available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Florence HofflandDate Dec. 17, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

12-9.5

31661

FILED

12:15 o'clock P.M.
12:17 1963
M. L. [Signature]
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By [Signature] Deputy

File No.

DUPLICATE

T. 32^N R. 5WCounty Flaming

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

Owner Lois W NELSON Address 104-3rd St SE,Cent Bank, Mont

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable.

NATURAL SPRING

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.....

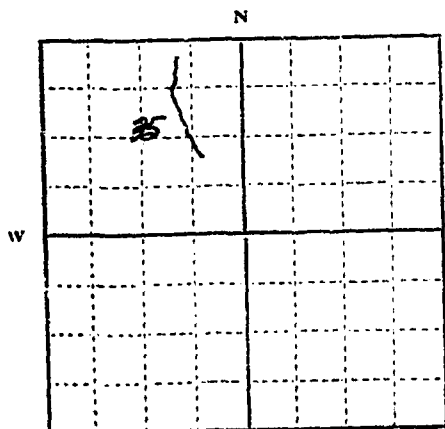
Since LAND WAS HOMESTEADEDSignature of Owner Lois W NelsonDate 12/31/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the
works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quadruplicate for the Appropriator.



E 1/2 NE 1/4 Sec. 35 T. 32 R. 5W

Indicate point of appropriation
and place of use, if possible.

139009

FILED

at 8:50 o'clock
12-31 1963
Thelma Hamini
County Clerk and Ex-officio
GLACIER COUNTY, MONTANA
Thelma Hamini

File No.

DUPLICATE

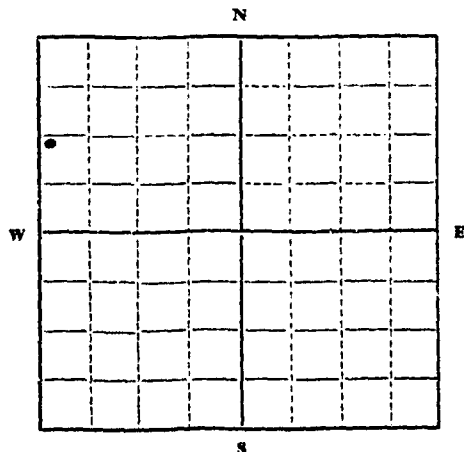
T. 32 R. 5WCounty Shelby

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. HAROLD C. & Lois W. Nelson of 704-3rd St SE Cut Bank
(Name of Appropriator) (Address) (Town)
County of Shelby State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 36 T. 32 R. 5W.

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1955

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 75 gals

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater

8. The depth of water table 10.5

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19334

139006

FILED *a*
at *8:35* o'clock *a*.M.
12-31 19*43*
M. L. Mann
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
L. M. Mann Deputy

GROUNDWATER INDEX

Page / of /

County Glacier Twp. 3177 Rge. 136

[illegible]

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 227 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Fire Brand Court

Address E. Glacier Mont.

Box 81

Date well started Aug 30-72

completed Sept. 3-72

Type of well DRILLED

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

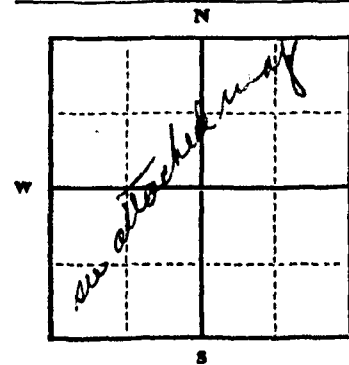
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL ?

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
10 3/4"	9 5/8"	0	55	Kind Size Holes 3/8"
				From (Feet) To (Feet) 35' 55'



Static water level 43' ft.*
Pumping water level 35' ft.*
at 20 gallons per minute,
measured 40 minutes after pumping began.

*Measured from ground level.
Well developed by FLAISHING
for 20 hours.
Power 1 Pump 1 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)

1/4 Sec. 36 UNSURVEYED
T. 31 N. R. 13 E. S. 13 W.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Clayton Mendenhall

Driller's Address 2026 3rd Ave. So.

Hot falls Mt. 59405 LICENSE NO. 199

31N-13W

County Glacier

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	2	Top Soil
2	12	Dark Stone
12	24	Gray Clay
24	35	Dark Sandstone
35	40	Brown Shale
40	55	Blue Stone
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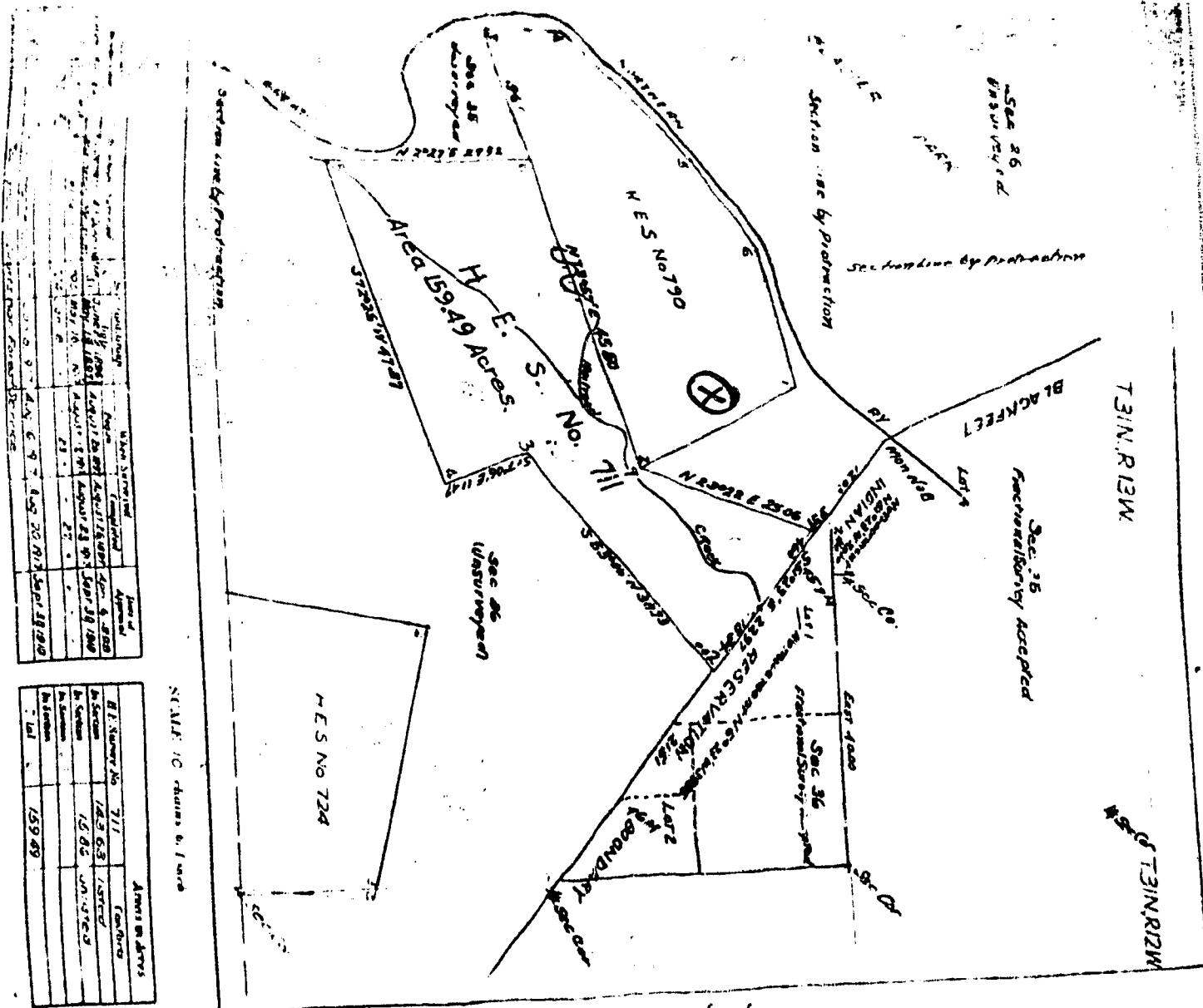
55 Show exact depth of bottom

51,495

RECEIVED

SEP 29 1912

MONTANA DEPARTMENT OF NATURAL
RESOURCES



Section	Area	Surveyed	Approved
36	159.49	1912	1912
35	159.49	1912	1912
34	159.49	1912	1912
33	159.49	1912	1912
32	159.49	1912	1912
31	159.49	1912	1912
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1	159.49	1912	1912

Section	Area	Surveyed	Approved
36	159.49	1912	1912
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32	159.49	1912	1912
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2	159.49	1912	1912
1	159.49	1912	1912

Section	Area	Surveyed	Approved
36	159.49	1912	1912
35	159.49	1912	1912
34	159.49	1912	1912
33	159.49	1912	1912
32	159.49	1912	1912
31	159.49	1912	1912
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6	159.49	1912	1912
5	159.49	1912	1912
4	159.49	1912	1912
3	159.49	1912	1912
2	159.49	1912	1912
1	159.49	1912	1912

This plat of Homestead Entry Survey
No. 711 State of MONTANA is
correctly returned to the field notes
showed on file in this office, which
have been examined and approved.
U.S. Surveyor General's Office
Helena Montana
September 20, 1912

Plat of
LEWIS & CLARK
NATIONAL FOREST
in
Sec. 35 unsurveyed T31N.R13W.
Sec. 36 unsurveyed T31N.R13W.
of the
PRINCIPAL MERIDIAN
MONTANA
No. 711
in the
HOMESTEAD
ENTRY SURVEY

51,495

7. The location, type, size and depth of well or wells contemplated Drilled 10" hole
25 to 50 ft.
 8. The probable or estimated depth of the water-table or artesian aquifer 15 ft.
 9. The name, address, and license number of the driller engaged Douglas Mcendenhall
4030 and Ave S. 64 Falls, Mould West 199
 10. Give such other similar information as may be useful in carrying out the policy of this act

164712
 FILED a
 8:35 o'clock
 9-28 19 72
 M. E. M...
 County Clerk and Ex-officio Recorder of
 GLACIER COUNTY, MONTANA
 Emma Labarto Deputy

County Glacier

36

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF APPROPRIATION OF GROUNDWATER

(Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

1. Firebrand Campground in East Glacier Park
(Name of Appropriator) (Address) (Town)

County of Glacier, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is Campground & Homes

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed

The estimated amount of groundwater to be used annually 18,250

4. The annual period (inclusive dates) of intended use Yearly

5. The probable or intended date of first beneficial use Oct. 1, 1972

6. The probable or intended date of commencement and completion of the well* or wells*

1st. to 15th. Sept. 1972

7. The location, type, size and depth of well or wells contemplated Drilled 10" hole

25 to 50 ft.

8. The probable or estimated depth of the water-table or artesian aquifer 15 Ft.

9. The name, address, and license number of the driller engaged Douglas Mendenhall

4020 3rd Ave S. Gt. Falls, Mont. Lic. # 199

10. Give such other similar information as may be useful in carrying out the policy of this act

For Administrator's Use	
File	<u>164711</u>
<u>Sept. 28, 1972 - 8:30 a.m.</u>	

HES # 790

1/4 1/4 Sec. 36 Unsurveyed

T. 31 N. R. 13 W.

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

Signature of Appropriator Charles M. Schayffer Date Sept 1, 1972

*As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

51,494

#104911

FILED

9:30 o'clock

9-28-1972

County Clerk and Ex-officio Recorder of

GLACIER COUNTY, MONTANA

Lema Lema Ass. Clerk

GROUNDWATER INDEX

Page 1 of 1

County Glacier Twp. 31 N Rge. 12 W

[illegible]

G

Approved Stock Form—State Publishing

Helena, Montana

File No. _____

DUPLICATE

T. HelenaCounty BEAVER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 3 1964

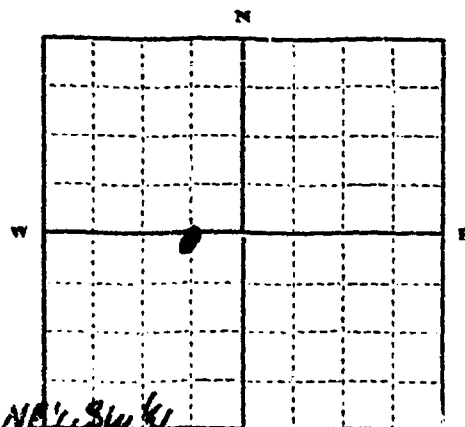
ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Big Spring Sr., of East Helena Park
(Name of Proprietor) (Address) Montana (Town)

County of _____ State of _____
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4, Sec. 31, T. 25, R. 12

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based _____

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1855

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gal per min

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof _____

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1955

8. The depth of water table at surface of ground

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 18 ft deep - cased -

10. The estimated amount of groundwater withdrawn each year 3,000,000

11. The log of formations encountered in the drilling of each well if available none

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record _____

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19363

139046

FILED
at 1:35 o'clock P.M.
1963
H. L. Nannini
County Clerk and Ex-officio Recorder
GLACIER COUNTY, MONTANA
By Rita Hegg Deputy

File No.

T. 31 R. 12

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 3 1964

STATE ENGINEER

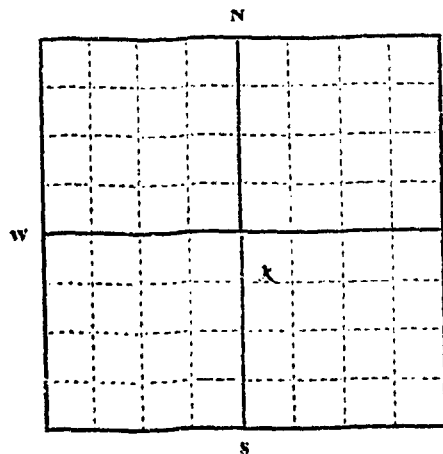
**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater September 26, 1952Owner Les Schauf Address East Glacier

Contractor (if any)

Address of Contractor

Date Started Unknown It was here when we bought the place Date CompletedDescribe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. by gravity flow 10/100/1000/The reservoir is 10 feet deep and 7 feet in diameter with the water flowing in at the bottom.SE 1/4 Sec. 30 T. 31 R. 12

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. It is used as standby when the electric power is off. Originally this was the only source of supply during the winter months

Signature of Owner Les SchaufDate December 30, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

139030

FILED

at 11:35 o'clock A.M.
1935
M. L. Hannan
County Clerk and Ex-officio Recorder
GLACIER COUNTY, MONTANA
By Rita E. Egan Deputy

File No.

T 31 R 12

DUPLICATE

County Glacier

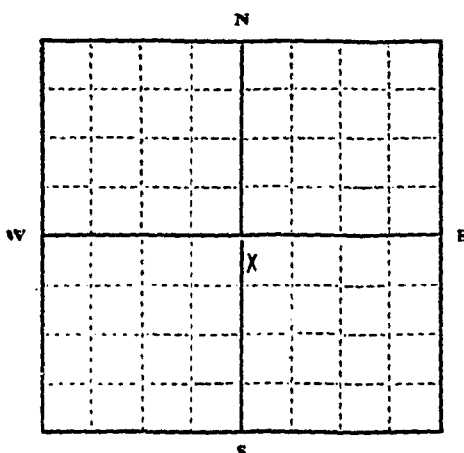
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

Declaration of Vested Groundwater Rights ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. Les Schauf, of East Glacier
(Name of Appropriator) (Address) (Town)
County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SE 1/4 Sec. 30 T. 31 R. 12

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Domestic and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. June 1958 steady use since then.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof to sprinkle lawn about an acre and a half
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal by means of an electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Began June 1, 1958 and finished June 7, 1958
8. The depth of water table. 60 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 inch cased well 70 feet deep
10. The estimated amount of groundwater withdrawn each year. 2,000,000 gallons
11. The log of formations encountered in the drilling of each well if available. not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner Les SchaufDate December 30

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quadruplicate for the Appropriator.

19351

139026

FILED

at 11:15 o'clock A.M.
12-31-1963
M. L. Hansen
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
P. A. Hagg Deputy

File No.

T. 31 R. 12

DUPLICATE

County Glacier

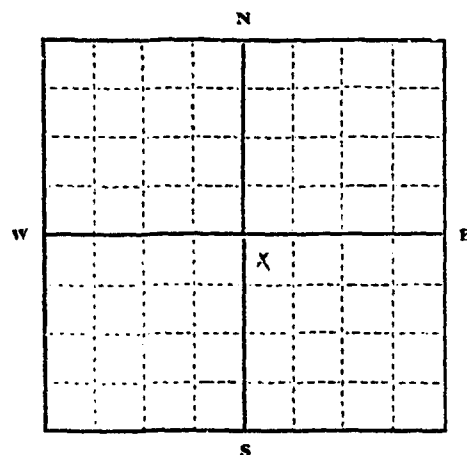
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Les Schauf of East Glacier
(Name of Appropriator) (Address) (Town)
County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 30 T. 31 R. 12

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based.
Irrigation and supplemental domestic use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. July 1959 Continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 12 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

2 acres of lawn

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. July 1, 1959 and finished July 15, 1959

8. The depth of water table. 50 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 7 inch cased well and 68 feet deep

10. The estimated amount of groundwater withdrawn each year. 2,500,000 gallons

11. The log of formations encountered in the drilling of each well if available. hard sandstone at bottom

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Les Schauf

Date Dec 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19352

139027

FILED
at 11:20 o'clock A.M.
12-31 1963
M. L. Nammi
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Rita Hegge, duly

File No.

T. 31 R. 12

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

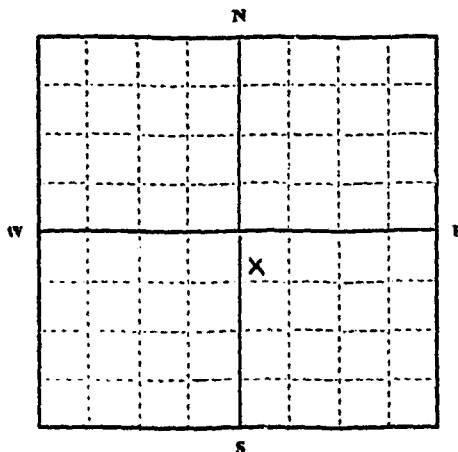
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Lee Schauf of East Glacier
(Name of Appropriator) (Address) (Town)

County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



51 Sec. 30 T. 31 R. 12

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based domestic standby
3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 10, 1958 and finished May 31, 1958
continuous as standby
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater May 10, 1958 and finished May 31, 1958
8. The depth of water table 60 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 6 inch casing 60 feet deep
10. The estimated amount of groundwater withdrawn each year 1,000,000 gallons is needed
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
None

Signature of Owner

Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19353

139028

FILED

at 11:25 o'clock *a.m.*
12-31-1963
M. J. Marini
County Clerk and Ex-Officio Recorder of
GLACIERS COUNTY, MONTANA
John Hegg Deputy

File No.

T. 31 R. 12

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

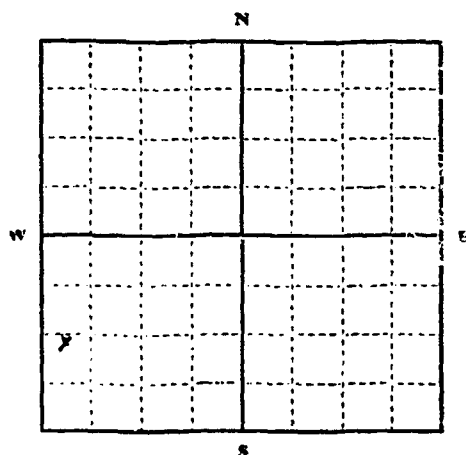
RECEIVED
JAN 3 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Les Schauf of East Glacier
(Name of Appropriator) (Address) (Town)

County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 30 T. 31 R. 12

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based domestic use
for ski run and for eventual snow making
3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been October 17, 1960
Used when ski run operates
4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 15 gallons per minute
5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal
electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater October 10, 1960 and finished October 17, 1960
8. The depth of water table 50 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater 6 inch casing and 60 feet deep
10. The estimated amount of groundwater withdrawn each year 2,500,000 gallons
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record

Signature of Owner

Date Dec. 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quadruplicate for the Appropriator.

19354

139029

FILED

at 11:30 o'clock AM
17-3-39 1943
M. J. Masumi
County Clerk and Ex-officio Recorder of
GLACIER COUNTY MONTANA
By Rita Hegg Deputy

C

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

DUPLICATE

T. 31 N. R. 12

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

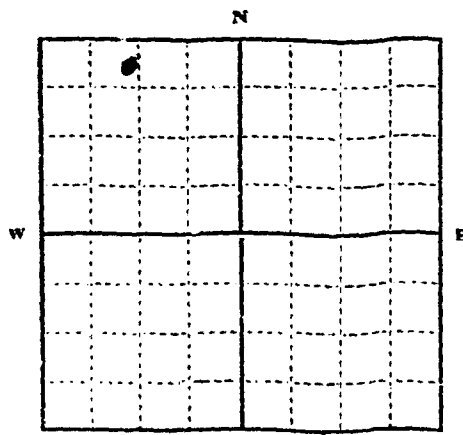
JAN 8 1964

ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Big Spring, Jr., of East Glacier Park
(Name of Appropriator) (Address) (Town)
County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4

Sec. 34 T. 31 N. R. 12 W

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Line work3. Date or approximate date of earliest beneficial use; and how continuous the use has been 19554. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 gal per min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 19558. The depth of water table 40 ft9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well is 102 ft deep - Cased off10. The estimated amount of groundwater withdrawn each year 2,500,000 gallons11. The log of formations encountered in the drilling of each well if available None

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

William F. Big Spring Jr.
Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19365

139048

FILED

at 1:35 o'clock P.M.
12-31-1963
M. L. Harrison
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Rita Hagg Deputy

File No.

DUPLICATE

T. 31N R. 12W

County Glacier

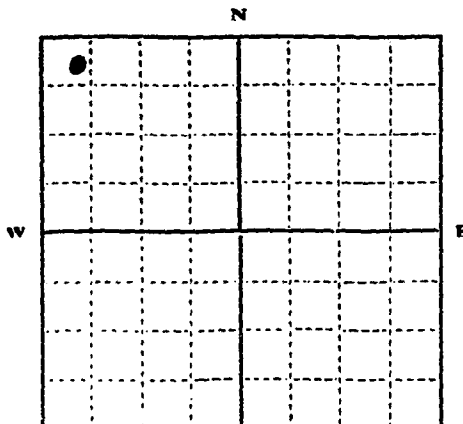
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Big Spring Sr. of East Glacier Park
(Name of Appropriator) (Address)
County of Glacier State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 NW 1/4

1/4 Sec. 34 T. 31N R. 12W

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Home use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1954
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 gal per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well use
an electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1954
8. The depth of water table 40 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well is 105 ft deep cased off with
6 in casing
10. The estimated amount of groundwater withdrawn each year 500,000
11. The log of formations encountered in the drilling of each well if available None
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including references to book and page of any county record

Signature of Owner

William F. Big Spring Sr.
Date 12/31/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19366

139049

FILED

at 1:35 P M
1963
M. L. Hasum
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Rita Pegg Deputy

File No.

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

County

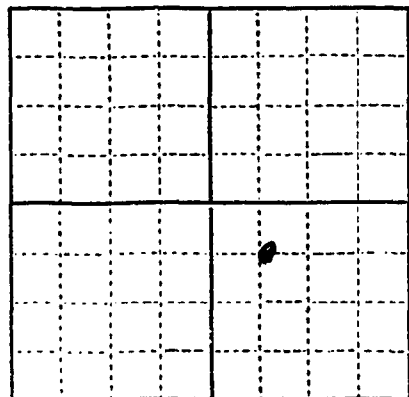
JAN 8 1964

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. William Big Spring Dr., of East Glarus Park
(Name of Appropriator) (Address) (Town)
County of Glenn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4

Sec. 34 T. 31 R. 12

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based Home & Livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1955
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 gal per min
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1955
8. The depth of water table 60 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 105 ft deep cased
10. The estimated amount of groundwater withdrawn each year 1,200,000
11. The log of formations encountered in the drilling of each well if available none
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner

Date

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19364

139047

FILED

at 1:35 o'clock P.M.
12-31-1963
M. L. Hansen
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Rita Hegg Deputy

GROUNDWATER INDEX

Page 1 of 1

County Glacier Twp. 31 T Rge. 11 W

[illegible]

GW 2

File No.

DUPLICATE

RECEIVED
JUL 1 - 1963

T. 31N R. 11W

County. Glacier

STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED
JUN 20 1963

**Notice of Completion of Groundwater
Appropriation by Means of Well ENGINEER**

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
0 (Elev. above sea level.....)
14. - clay & boulders,
16. - sand,
55. - yellow clay complex
some sand & rock,
60. - sand & rock
some water
80. - blue clay & sand & rock.
91. - soft sand & rock.
some water
100. - blue clay & sand & rock.
123. - sand & rock some
blue clay.
some water

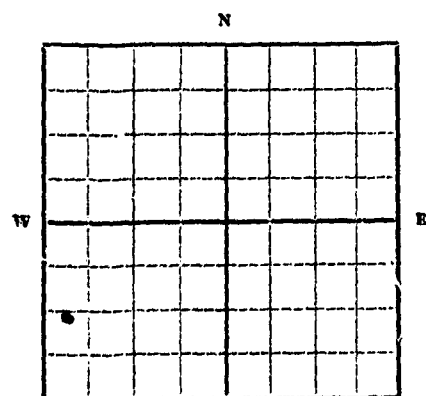
Owner. Elwin L. Loomis Address. Valley Montana.Driller. Ernest W. Peterson Address. Cut Bank.

Date of Notice of Appropriation of Groundwater

Date well started. June 13, 1963 Date Completed. June 16, 1963Type of well. Drilled Equipment Used. Rotary
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 1/8	4 1/2 O.D. 6.75" I.D.	0	123	4 1/2 inch Trench perforated	5-5-	123



NW 1/4 SW Sec 13 T. 31 N. R. 11 W.

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well. 18 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level. 127 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested. air & leak Length of Test. 5 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

grant of land.

Driller's License Number

Ernest W. Peterson
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

4696

136331

RECEIVED

STATE ENGINEER

FILED

12:05 P
6:00 PM
10:00 AM
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By *Samuel F. DeLoe* Deputy

STATE ENGINEER

GROUNDWATER INDEX

Page of

County Glacier Twp. 31 N Rge. 10 W

[illegible]

GW 2

File No.

DUPLICATE

RECEIVED
JUL 1 - 1963

T. 31 N. R. 10 W.

County. Glacier

STATE ENGINEER
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

RECEIVED
JUN 20 1963

**Notice of Completion of Groundwater
Appropriation by Means of Well ENGINEER**

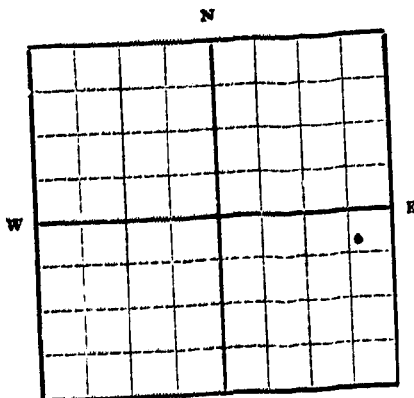
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level.....)
0
15 - clay & boulders
24 - sand rock some clay
50 - sand rock some blue clay
64 - sand rock & blue clay,
water

Owner Bob. Aikens Address Waller, Montana
Driller Emilio W. Peterson Address Culbert, Montana
Date of Notice of Appropriation of Groundwater
Date well started 6-19-63 Date Completed 6-19-63
Type of well drilled Equipment Used rotary
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)
Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 1/2"	4 1/2" O.D. 6.75" W	0	64	1/2" x 6" pack perfect	34	64



NE 1/4 Sec. 8, T31, R10.
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

64 Show exact depth of bottom.

Static Water Level for non-flowing Well..... 16' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level..... 64 feet at 6 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested air Length of Test 2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

gravel pack

Driller's License Number 11

Driller's Signature Emilio W. Peterson

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

If not applicable, so state, otherwise the form will be returned.

One copy to be retained by the driller; Triplicate to the State Engineer; Triplicate to the School of Mines

4695

136330

STATE ENGINEER

RECEIVED
JUL 1 - 1963

FILED

12:00 o'clock
6-19-63
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
D. W. T. T. Deputy

ENGINEER

GROUNDWATER INDEX

Page 1 of 1

County Blair Twp. 317 Rge. 86

[illegible]

GW 3

File No.

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—42262

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1964
COUNTY CLERK

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 30, 1963

Owner Donald and
Bertrada Watsel Address Browning, Montana Box 147

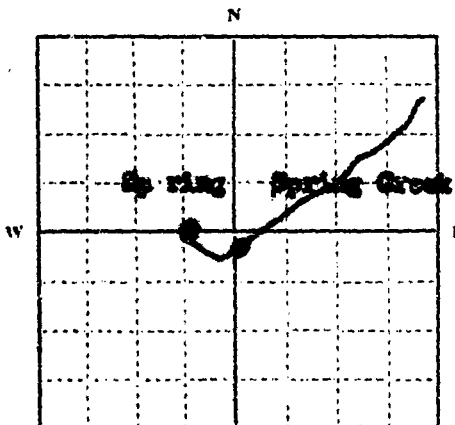
Contractor (if any) Soil Conservation Office at

Address of Contractor Browning, Montana

Date Started 1960 Date Completed 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Spring



NE 1/4 Sec. 16 T3.1 R. 8

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. all summer

Signature of Owner

Donald Watsel
Date Dec 30, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

138996

FILED

at 12 o'clock P.M.
12 3, 1943
M. J. Thomas
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Melvin H. Jones Deputy

G

File No.

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—39089

T. 31 N. R. 8 E. 16

County—Glasgow

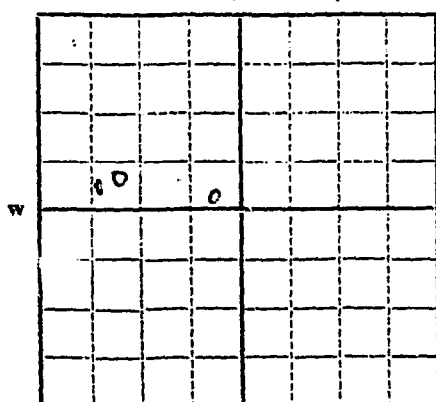
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 3 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Donald Wetzel, of Hamming, Montana Box 147
(Name of Appropriator) (Address) (Town)
County of Glasgow State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NW Sec. 16, T. 31 N. R. 8 E.

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based.....
Stock & storing Irrigation, Household use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
yearly
4. The amount of groundwater claimed (in miner's inches or gallons per minute).....
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....
Donald Wetzel
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
Dumps
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
1952-1953
8. The depth of water table.....
Six feet to thirty feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....
Contractor Peterson has this information
Peterson Well Driller filed this information in Helena
10. The estimated amount of groundwater withdrawn each year.....
Don't know
11. The log of formations encountered in the drilling of each well if available.....
Don't know
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....
None listed up

Signature of Owner

Donald Wetzel
Date 12/30/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

19329

128997

FILED

at 1:30 o'clock P.M.
on Feb. 22, 1912
by M. L. Williams
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By M. L. Williams Deputy

GROUNDWATER INDEX

Page 1 of 1

County Glacier Twp. 3N Rge. 13W

[illegible]

File No.

T 30 N R 13 W 31

DUPLICATE

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater
Appropriation by Means of Well**

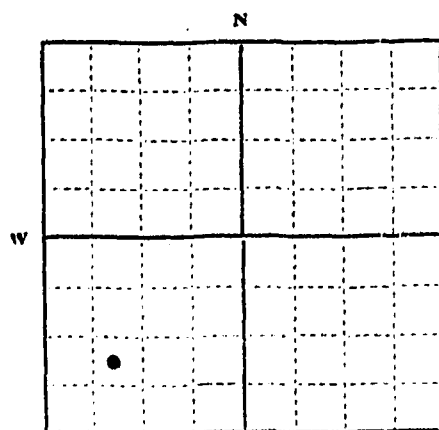
(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level 5213)
Brown & grey clays with some gravel & boulders
Gravel mixed with some brown clay & boulders
Could and would contain water certain times of year
A good clean water gravel containing water
Approximately 60 gallons per minute
Clays changing from blue to red and brown
Black shale
Streak sand rock approx. 10", could contain small amount of water
Black shale
Streak grey sand rock approx. 18", could contain small amount water
Black shale
Bottom

Owner St. Northern Railway Co. Address Summit, Mont.Driller Ernest W. Peterson Address Cut Bank, Mont.Date of Notice of Appropriation of Groundwater 2 September, 1969Date well started 8-28-69 Date Completed 9-20-69Type of well Drilled Equipment Used Rotary
(dug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10 1/2"	8 5/8" O.D. 24 lb.	0	55	1/8" x 6" Torch perforated 2" well screen	26	36
	4 1/2" O.D. 6.75 lb.	0	47		50	55



S. 1/4 Sec. 31 T30N R13W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Cemented around 8 5/8" from 24' to surface, with 2' soil plug above gravel. 8 5/8" cut off & pulled from 8' to surface in order to install sanitary pitless adapter

Soil plug between casings at 24' then cemented to bottom of pitless adapter

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

Static Water Level for non-flowing Well 16 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 43 feet at 60 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Air Length of Test 7 1/2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) Gravel packed

between the two casings from 23' to 55'

Gravel packed around 8 5/8" with natural

from 26' to bottom 55'

11 (eleven)

Driller's License Number

Ernest W. Peterson

Driller's Signature

156275

MONTANA WATER RESOURCES BOARD
RECEIVED
NOV 14 1969

FILED
8:55 a
11-13 1969
M. L. NANINI
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
Deputy

GROUNDWATER INDEX

Page 1 of 1

County Glacier Twp. 30 N ~~R~~ Rge. 12 W

[illegible]

GW3

File No.

DUPLICATE

T 30N R 12W

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 17 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Sept. - 1962

Owner H. Max Stone

Address Kalispell - (Billings After JAN 1, 64)

Contractor (if any) NONE

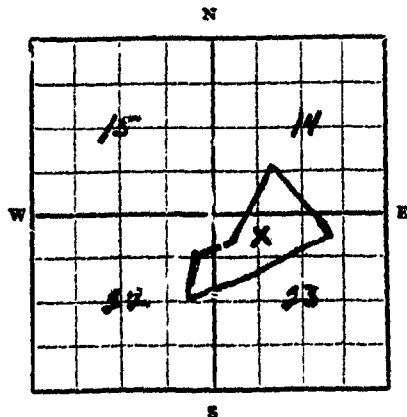
Address of Contractor NONE

Date Started

Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural Spring

Along Dog Run Creek. (Marked with an "X" at Left.



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermit-

..... 1/4 Sec. T 30N R 12W

Indicate point of appropriation and place of use, if possible.

Approx. 160 A. Located in 3 sections as indicated above. Listed as U.S. Forest Service H.E.S. #705

tent estimate approximate lengths of periods of use

Used for house use, livestock + irrigation, + recreation. More development planned for future. I claim use of entire spring.

Signature of Owner

[Handwritten Signature]

Date December 17, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

139303

FILED

At 1:55 o'clock P.
M. 1964
J. J. Harrison
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By Rita Regg

File No. _____

DUPLICATE

T30N R12W

County Glacier

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

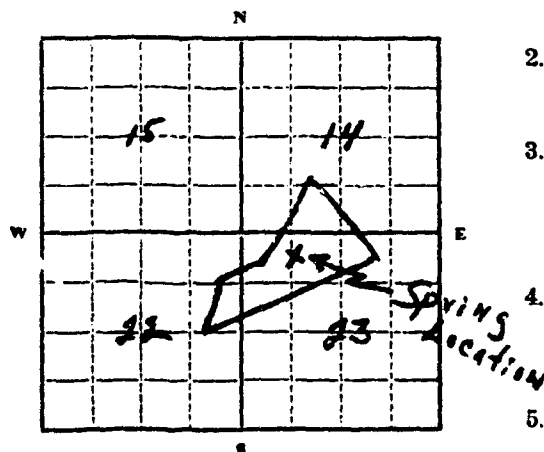
RECEIVED
JAN 17 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. H. Max Stone, of 136 E. Evergreen Dr., Kalispell
(Name of Appropriator) (Address) (Town)
County of Flathead State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. T30N R12W
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres. Located as indicated above. Described as U.S. Forest Service H.E.S. #705

2. The beneficial use on which the claim is based household, stockwater, irrigation + recreation.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Surveyed 1918

U.S. F.S. H.E.S. #705

4. The amount of groundwater claimed (in miner's inches or gallons per minute) estimated 50 g.p.m.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof used in garden + some pasture.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pumping AND dipping - Springs

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Not applicable

8. The depth of water table Approx. 3' to 2'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater pump + bucket. Planned future development for household use + recreation. Also continued use for stock water.

10. The estimated amount of groundwater withdrawn each year UNKNOWN. Flowing springs

11. The log of formations encountered in the drilling of each well if available. Not applicable

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Records in Glacier County. Set at Cut Bank, Mont.

Signature of Owner

H. Max Stone

Date December 17, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

37166

139302

~~139169~~

Received 12/19/63
Clerk-Recorder

FILED
at 1:50 o'clock P.
M. 1964
M. L. Mammie
County Clerk and Ex-officio Recorder of
GLACIER COUNTY, MONTANA
By *[Signature]* Deputy